

Supplementary Figure 1 (related to Figure 1): Pneumococcal transmission in ferrets.

A) bacterial burden in ketamine-induced sneezes from donor and contact ferrets by day post infection of donor animals. Each dot represents a single animal. In some iterations of the experiment animals were sneezed daily, in others they were sneezed every other day (see supplemental table 5). B) donor-to-contact bottlenecks: percentage of inserts recovered from donor also recovered from cagemate contact. C) percent donor-to-contact bottleneck depending on # of inserts in donor. D) percent donor-to-contact bottleneck depending on bacterial burden (CFU) in donor.

Supplementary Figure 2 (related to Figure 4) : Western blots with sera from immunized mice against purified proteins using sera from alum vaccinated, rCppA vaccinated, and rPiaA vaccinated animals against either recombinant PiaA or CppA (A). ELISA against whole cell lysates (PCV-13) or purified proteins, reported as log titer, inverse of last serum dilution with reading above background (B).



